

Attorney's Docket No.: 07977/213002/US3521/3522

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to form a first metal element added region and a second metal element added region;

crystallizing the amorphous semiconductor film so that a crystal growth proceeds in a crystal growth direction parallel to the insulating surface from the first metal element added region and the second metal element added region thereby to form a first crystalline portion and a second crystalline portion, respectively, in a crystalline semiconductor film;

patterning the crystalline semiconductor film to form at least one crystalline semiconductor island using only the first crystalline portion while the second crystalline portion is not used to form the crystalline semiconductor island,

wherein carriers move in the crystalline semiconductor island in a carrier moving direction identical with the crystal growth direction,

wherein the second metal element added region is located apart from the crystalline semiconductor island by a distance,

wherein the first metal element added region has a length extending longer from an end portion of the crystalline semiconductor island in a longitudinal direction of the first metal element added region.

Attorney's Docket No.: 07977/213002/US3521/3522

C1
7. (Amended) A method according to claim 6,
wherein lengths of the first metal element added region and
the second element added region are set to 50% or more of a
crystal growth distance.

9. (Amended) A method of manufacturing a semiconductor
device, said method comprising:
forming an amorphous semiconductor film on an insulating
surface;

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selectively providing a metal element being capable of
promoting crystallization of the amorphous semiconductor film
into at least a first region and a second region of the
amorphous semiconductor film to form a first metal element added
region and a second metal element added region, respectively;

crystallizing the amorphous semiconductor film so that a
crystal growths proceed in parallel to the insulating surface
from each of the first metal element added region and the second
metal element added region to form a first crystalline
semiconductor region and a second crystalline semiconductor
region, respectively;

forming at least one active region of the semiconductor
device in the first crystalline semiconductor region while the
second crystalline semiconductor region is not used to form an
active region of the semiconductor device.

Attorney's Docket No.: 07977/213002/US3521/3522

C3 *sub D8*
11. (Amended) A method according to claim 9,
wherein the metal element is provided by an ion implanting
method.

12. (Amended) A method according to claim 9,
wherein the metal element is provided by coating a solvent
comprising the metal element.

C4 *sub D8*
14. (Amended) A method according to claim 9,
wherein the amorphous semiconductor film comprises silicon.

C5 *sub D8*
18. (Amended) A method according to claim 6,
wherein the amorphous semiconductor film comprises silicon.

C6 *sub D8*
23. (Amended) A method according to claim 9,
further comprising controlling crystal growth state using the
second metal element added region.

Please add the following new claims 24-71.

C7 *sub D8*
24. (New) A method of manufacturing a semiconductor device,
said method comprising:
forming an amorphous semiconductor film on an insulating
surface;

Attorney's Docket No.: 07977/213002/US3521/3522

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to a selected region of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a crystalline semiconductor film so that a crystal growth proceeds in a direction parallel to the insulating surface from a metal element added region; and

patterning the crystalline semiconductor film to form at least one crystalline semiconductor island,

wherein the metal element added region has length extending 100 μ m or more longer from an end portion of the crystalline semiconductor island in a longitudinal direction of the metal element added region.

25. (New) A method according to claim 24,
wherein the metal element comprises at least one selected from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

26. (New) A method according to claim 24,
wherein the metal element is provided by an ion implanting method.

Attorney's Docket No.: 07977/213002/US3521/3522

27. (New) A method according to claim 24, wherein the metal element is provided by coating a solvent comprising the metal element.

28. (New) A method according to claim 24, wherein the amorphous semiconductor film comprises silicon.

CL 29. (New) A method according to claim 24, wherein the semiconductor device includes at least one selected from the group consisting of an n-channel thin film transistor and a p-channel thin film transistor, wherein the n-channel thin film transistor has a first S value not higher than 90 mV/dec while the p-channel thin film transistor has a second S value not higher than 100 mV/dec.

30. (New) A method according to claim 24, wherein the semiconductor device includes at least one selected from the group consisting of an n-channel thin film transistor and a p-channel thin film transistor, wherein the n-channel thin film transistor has a first S value not lower than 75 mV/dec while the p-channel thin film transistor has a second S value not lower than 75 mV/dec.

Attorney's Docket No.: 07977/213002/US3521/3522

31. (New) A method of manufacturing a semiconductor device, said method comprising:

forming an amorphous semiconductor film on an insulating surface;

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to at least two selected regions of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a crystalline semiconductor film so that crystal growths proceed in a direction parallel to the insulating surface from metal element added regions; and

07 patterning the crystalline semiconductor film to form at least one crystalline semiconductor island,

wherein a portion of the crystalline semiconductor film formed by using one metal element added region is not used to form crystalline semiconductor islands.

32. (New) A method according to claim 31, wherein lengths of the metal element added regions are set to 50% or more of a crystal growth distance.

33. (New) A method according to claim 31, wherein the metal element comprises at least one selected from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

Attorney's Docket No.: 07977/213002/US3521/3522

34. (New) A method according to claim 31,
wherein the metal element is provided by an ion implanting
method.

35. (New) A method according to claim 31,
wherein the metal element is provided by coating a solvent
comprising the metal element.

36. (New) A method according to claim 31,
wherein the amorphous semiconductor film comprises silicon.

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37. (New) A method according to claim 31,
wherein the semiconductor device includes at least one
selected from the group consisting of an n-channel thin film
transistor and a p-channel thin film transistor,
wherein the n-channel thin film transistor has a first S
value not higher than 90 mV/dec while the p-channel thin film
transistor has a second S value not higher than 100 mV/dec.

38. (New) A method according to claim 31,
wherein the semiconductor device includes at least one
selected from the group consisting of an n-channel thin film
transistor and a p-channel thin film transistor,

Attorney's Docket No.: 07977/213002/US3521/3522

wherein the n-channel thin film transistor has a first S value not lower than 75 mV/dec while the p-channel thin film transistor has a second S value not lower than 75 mV/dec.

39. (New) A method according to claim 31, further comprising controlling crystal growth state using a metal element added region that is not used to form crystalline semiconductor islands.

C7 40. (New) A method of manufacturing a semiconductor device, said method comprising:

forming an amorphous semiconductor film on an insulating surface;

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to at least two selected regions of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a crystalline semiconductor film so that crystal growths proceed in a direction parallel to the insulating surface from metal element added regions; and

patterning the crystalline semiconductor film to form at least one crystalline semiconductor island,

wherein at least one of the metal element added regions has length extending 100µm or more longer from an end portion of the

Attorney's Docket No.: 07977/213002/US3521/3522

crystalline semiconductor island in a longitudinal direction of
a metal element added region, and

wherein a portion of the crystalline semiconductor film formed
by using one metal element added region is not used to form
crystalline semiconductor islands.

41. (New) A method according to claim 40,
wherein the metal element comprises at least one selected
from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

42. (New) A method according to claim 40,
wherein the metal element is provided by an ion implanting
method.

43. (New) A method according to claim 40,
wherein the metal element is provided by coating a solvent
comprising the metal element.

44. (New) A method according to claim 40,
wherein the amorphous semiconductor film comprises silicon.

Attorney's Docket No.: 07977/213002/US3521/3522

45. (New) A method according to claim 40,
wherein the semiconductor device includes at least one
selected from the group consisting of an n-channel thin film
transistor and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S
value not higher than 90 mV/dec while the p-channel thin film
transistor has a second S value not higher than 100 mV/dec.

cy 46. (New) A method according to claim 40,
wherein the semiconductor device includes at least one
selected from the group consisting of an n-channel thin film
transistor and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S
value not lower than 75 mV/dec while the p-channel thin film
transistor has a second S value not lower than 75 mV/dec.

47. (New) A method according to claim 40,
further comprising controlling crystal growth state using a
metal element added region that is not used to form crystalline
semiconductor islands.

48. (New) A method of manufacturing an inverter circuit,
said method comprising:

Attorney's Docket No.: 07977/213002/US3521/3522

forming an amorphous semiconductor film on an insulating surface;

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to a selected region of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a crystalline semiconductor film so that a crystal growth proceeds in a direction parallel to the insulating surface from a metal element added region; and

CF patterning the crystalline semiconductor film to form at least one crystalline semiconductor island,

wherein the metal element added region has length extending 100µm or more longer from an end portion of the crystalline semiconductor island in a longitudinal direction of the metal element added region.

49. (New) A method according to claim 48,

wherein the metal element comprises at least one selected from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

50. (New) A method according to claim 48,

wherein the metal element is provided by an ion implanting method.

Attorney's Docket No.: 07977/213002/US3521/3522

51. (New) A method according to claim 48,
wherein the metal element is provided by coating a solvent
comprising the metal element.

52. (New) A method according to claim 48,
wherein the amorphous semiconductor film comprises silicon.

53. (New) A method according to claim 48,
wherein the inverter circuit includes at least one selected
from the group consisting of an n-channel thin film transistor
and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S
value not higher than 90 mV/dec while the p-channel thin film
transistor has a second S value not higher than 100 mV/dec.

54. (New) A method according to claim 48,
wherein the inverter circuit includes at least one selected
from the group consisting of an n-channel thin film transistor
and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S
value not lower than 75 mV/dec while the p-channel thin film
transistor has a second S value not lower than 75 mV/dec.

Attorney's Docket No.: 07977/213002/US3521/3522

55. (New) A method of manufacturing an inverter circuit,
said method comprising:

forming an amorphous semiconductor film on an insulating
surface;

providing a metal element being capable of promoting
crystallization of the amorphous semiconductor film to at least
two selected regions of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a
crystalline semiconductor film so that crystal growths proceed
in a direction parallel to the insulating surface from metal
element added regions; and

07 patterning the crystalline semiconductor film to form at least
one crystalline semiconductor island,

wherein a portion of the crystalline semiconductor film
formed by using one metal element added region is not used to
form crystalline semiconductor islands.

56. (New) A method according to claim 55,
wherein lengths of the metal element added regions are set
to 50% or more of a crystal growth distance.

57. (New) A method according to claim 55,
wherein the metal element comprises at least one selected
from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

Attorney's Docket No.: 07977/213002/US3521/3522

58. (New) A method according to claim 55,
wherein the metal element is provided by an ion implanting
method.

59. (New) A method according to claim 55,
wherein the metal element is provided by coating a solvent
comprising the metal element.

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60. (New) A method according to claim 55,
wherein the amorphous semiconductor film comprises silicon.

61. (New) A method according to claim 55,
wherein the inverter circuit includes at least one selected
from the group consisting of an n-channel thin film transistor
and a p-channel thin film transistor,
wherein the n-channel thin film transistor has a first S
value not higher than 90 mV/dec while the p-channel thin film
transistor has a second S value not higher than 100 mV/dec.

62. (New) A method according to claim 55,
wherein the inverter circuit includes at least one selected
from the group consisting of an n-channel thin film transistor
and a p-channel thin film transistor,

Attorney's Docket No.: 07977/213002/US3521/3522

wherein the n-channel thin film transistor has a first S value not lower than 75 mV/dec while the p-channel thin film transistor has a second S value not lower than 75 mV/dec.

63. (New) A method according to claim 55, further comprising controlling crystal growth state using a metal element added region that is not used to form crystalline semiconductor islands.

C7 64. (New) A method of manufacturing an inverter circuit, said method comprising:

forming an amorphous semiconductor film on an insulating surface;

providing a metal element being capable of promoting crystallization of the amorphous semiconductor film to at least two selected regions of the amorphous semiconductor film;

crystallizing the amorphous semiconductor film to form a crystalline semiconductor film so that crystal growths proceed in a direction parallel to the insulating surface from metal element added regions; and

patterning the crystalline semiconductor film to form at least one crystalline semiconductor island,

wherein at least one of the metal element added regions has length extending 100 μ m or more longer from an end portion of the

Attorney's Docket No.: 07977/213002/US3521/3522

crystalline semiconductor island in a longitudinal direction of a metal element added region, and wherein a portion of the crystalline semiconductor film formed by using one metal element added region is not used to form crystalline semiconductor islands.

65. (New) A method according to claim 64, wherein the metal element comprises at least one selected from Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt, Cu and Au.

C7 66. (New) A method according to claim 64, wherein the metal element is provided by an ion implanting method.

67. (New) A method according to claim 64, wherein the metal element is provided by coating a solvent comprising the metal element.

68. (New) A method according to claim 64, wherein the amorphous semiconductor film comprises silicon.

69. (New) A method according to claim 64,

Attorney's Docket No.: 07977/213002/US3521/3522

wherein the inverter circuit includes at least one selected from the group consisting of an n-channel thin film transistor and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S value not higher than 90 mV/dec while the p-channel thin film transistor has a second S value not higher than 100 mV/dec.

70. (New) A method according to claim 64,

wherein the inverter circuit includes at least one selected from the group consisting of an n-channel thin film transistor and a p-channel thin film transistor,

wherein the n-channel thin film transistor has a first S value not lower than 75 mV/dec while the p-channel thin film transistor has a second S value not lower than 75 mV/dec.

71. (New) A method according to claim 64,

further comprising controlling crystal growth state using a metal element added region that is not used to form crystalline semiconductor islands.